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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/731,850	12/08/2000	Fumiko Yano	1163-0306P	8820

7590 01/27/2003  
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EXAMINER

FOULADI SEMNANI, FARANAK

ART UNIT PAPER NUMBER

2672

DATE MAILED: 01/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/731,850	YANO, FUMIKO	
	<b>Examiner</b>	<b>Art Unit</b>	
	Faranak Fouladi	2672	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within this set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on 21 November 2002.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other:

**DETAILED ACTION**

1. This action is responsive to communications: application, filed on 12/08/2000; IDS, filed on 12/08/2000; and Amendment A, filed 11/21/02 .
2. New claims 11-14 have been added.
3. Claims 1-14 are pending in the case, with claims 1, 6, 11 and 13 being independent.
4. The present title of the application is "Character Display Device and Character Display Method" (as originally filed).
5. **THIS ACTION IS MADE FINAL.**

***Claim Rejections - 35 USC § 102***

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Seto et al. Publication Number JP, 10-293569A (Canon Inc.).
8. As per independent claim 1, "a character display device comprising: a recording means recording dot patterns and proximal reference points of each character of a character series; a coordinate calculation means obtaining said proximal reference point... and a display means obtaining a dot pattern for each character of said character

series from said recording means and displaying each character based on a calculated display position of each character calculated by said coordinate calculation means."

Seto et al. teaches in abstract and in Fig 5, 6, 8 and 9.

9. As per dependent claim 2, "...wherein, when said recording means record dot patterns and proximal reference points of sloping characters which slope at an arbitrary angle apart from normal non-sloping characters...and obtain dot patterns and proximal reference points of said selected characters." Seto et al. teaches in Fig8 and fig.9.

10. As per dependent claim 3, "...wherein said display means and said coordinate calculation means compare an angle of slope of a normal and a sloping character with a display angle of a character series and...said display angle." Seto et al. teaches in Fig. 9.

11. As per dependent claim 4, "...further comprising an input means allowing input of a character series to be displayed, and a display angle...of said character series." Seto et al. teaches in abstract.

12. As per dependent claim 5, "...further comprising a reading means reading a character series to be displayed...of said character series." Seto et al. teaches in Fig. 1 and Fig. 2.

13. Claims 6-10 recite method steps performed by the apparatus of claims 1-5; therefore they are similar in scope and rejected under the same rationale.

14. As per independent claim 11, "an apparatus which displays one or more characters of a character string in a desired position on a display device, comprising: a data input section in which character display data is provided by a user, a character

recorder which records dot patterns and proximal reference points of each character; a character display calculator that obtains a proximal reference point for each character and calculates the display coordinates of each dot pattern of each character based on the character display data; a display control that controls the positional display of each character based on the calculated display coordinate." Seto et al. teaches in abstract and in Fig 5, 6, 8 and 9.

15. As per dependent claim 12, "...wherein the character display data includes the characters to be displayed, an angle of display and a position of display." Seto et al. teaches in abstract.

16. Claims 13 and 14 recite method steps performed by the apparatus of claims 11 and 12; therefore they are similar in scope and rejected under the same rationale.

### ***Response to Arguments***

17. Applicant's arguments filed on 11/21/02 have been fully considered but they are not persuasive. Applicant argues on page 5, third paragraph, that the system of Sato first determines a semi-circular arch path for which the characters will be placed around, and once the arch is determined, each character is separately manipulated, each in a different manner, so that the characters can be placed around the arch path. But Sato discloses the ability to place characters (and also series of characters) at various angles on a display.

18. Applicant argues on page 7, first paragraph, that the characters of Sato are represented within a box frame and manipulated based on the arch path so that the box frame corresponds to the arch path. But Fig. 7, 9, 10, 11, 12, and 13 of the application under examination shows that each character is in the box frame. Sato discloses in fig. 9 that each character can be displayed in different angle on the display and shows how that angle is calculated. Applicant discloses in Fig 9 of the application under examination the display of a series of characters at a specific angle and position on a display device and fig. 9a and 9b of Sato disclose the same.

#### ***Conclusion***

**19. THIS ACTION IS MADE FINAL.**

20. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Faranak Fouladi** whose telephone number is **703-305-3223**. The examiner can normally be reached on Mon-Fri from 8:00-4:30.

22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Razavi** can be reach at **703-305-4713**.

23. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, DC. 20231

**Or faxed to: 703-872-9314 (for Technology Center 2600 only)**

24. Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, sixth-floor (Receptionist).

25. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is 703-306-0377.

**Faranak Fouladi-Semnani**  
**Patent Examiner**  
**Art Unit 2672**

A handwritten signature in black ink, appearing to read 'M. Razavi', with a long horizontal stroke extending to the right.

**MICHAEL RAZAVI**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 2600**